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Page 1 of 14 WA TRADE ATTY. DOCKET NO. APPLICAT 1711.0040004/RWE 09/667 FORM PTO-1449 APPLICANT Ryan et al INFORMATION DISCLOSURE STATEMENT FILING DATE September 22 2000 U.S. PATENT DOCUMENTS EXAMINER FILING DATE NAME CLASS DOCUMENT DATE INITIAL NUMBER 75 09/24/1945 03/22/1949 Whinfield et al. 260 AA1 2,465,319 09/10/1951 11/06/1956 260 86 7 AB1 2,769,804 Hanson 260 75 12/22/1955 08/25/1959 Kibler et al. AC1 2,901,466 260 45.5 01/30/1959 Baer AD1 2,971,939 02/14/1961 260 93.5 05/06/1954 06/20/1961 Hanson et al. AE1 2,989,517 260 75 11/19/1956 AF1 3,018,272 01/23/1962 Griffing et al. 260 47 06/29/1959 3,033,822 05/08/1962 Kibler et al. AG1 76 260 06/29/1959 AH1 3,033,826 05/08/1962 Kibler et al. 77 06/29/1959 260 AI1 3,033,827 05/08/1962 Kibler et al. 75 260 01/21/1959 AJ1 3,075,952 01/29/1963 Coover et al. 22 260 12/11/1967 AK1 3,502,602 03/24/1970 Helm et al. FOREIGN PATENT DOCUMENTS EXAMINER SUB-TRANSLATION DOCUMENT DATE COUNTRY INITIAL NUMBER Yes GB 988,414 04/07/1965 Great Britain No AT.1 Yes, Yes FR 1407582 06/21/1965 France see AS2 No AM1 Abstract,Yes 09/09/1971 Germany DE 1745464 No see AT1 AN1 06/20/1975 France Abstract,Yes FR 2248311 see AR2 No A01 Yes WO 86/07034 12/04/1986 WIPO ÑО OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Derwent World Patent Index, English language abstract of Japanese Patent No. 60-209078, "Bonding adhesive lining cloth to woven fabric by applying hot-melt adhesive to fabric, impregnating with aq. soln. of ethylene glycol, sodium AR 1 nitirte and surfactant, drying and bonding", Derwent XP-002109917, October 21, 1985. Derwent World Patent Index, English language abstract of Japanese Patent No. 56-055474, "Adhesive compsn. curable by HF induction heating - prepd. by blending AS 1 thermosetting resin with hardener and ferro-magnetic substance having high dielectric hysteresis loss in HF field", Derwent XP-002109916, May 16, 1981. Derwent World Patent Index, English language abstract of DE 1745464 (Document AN1), "Soluble unsaturated polyesteramide resin", WPI Acc No.: 68-07243Q/196800, AT 1 September 9, 1971. DATE CONSIDERED EXAMINE Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



INFORMATION DISCLOSURE STATEMENT

EXAMINER

APPLICATION ATTY. DOCKET NO. 1711.0040004/RWE 09/667,72

APPLICANT Ryan et al.

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| | ···· | | | v.s. | PATENT DOCUMENTS | (| | 20 |
| EXAMINER INITIAL | | | UMENT BER | DATE | NAME | CLASS | SUB | FILING DATE |
| (FV) | AA2 | 3,5 | 46,008 | 12/08/1970 | Shields et al. | 117 | 138.8 | 05/27/1968 |
| 1 | AB2 | 3,5 | 63,942 | 02/16/1971 | Heiberger | 260 | 29.2 | 11/29/1967 |
| | AC2 | 3,6 | 07,554 | 09/21/1971 | Heffernan | 156 | 380 | 03/12/1969 |
| | AD2 | 3,6 | 35,811 | 01/18/1972 | Lane | 204 | 192 | 11/06/1967 |
| | AE2 | 3,7 | 01,760 | 10/31/1972 | Hagemeyer Jr. et al. | 260 | 82 | 08/27/1970 |
| 1 | AF2 | 3,7 | 25,189 | 04/03/1973 | Gidge | 161 | 146 | 09/11/1970 |
| | AG2 | 3,7 | 34,874 | 05/22/1973 | Kibler et al. | 260 | 29.2 E | 02/27/1970 |
| | AH2 | 3,7 | 79,993 | 12/18/1973 | Kibler et al. | 260 | 75 \$ | 02/15/1973 |
| | AI2 | 3,8 | 50,858 | 11/26/1974 | Park | 260 | 27 BB | 09/28/1973 |
| 7/2 | AJ2 | 3,8 | 79,450 | 04/22/1975 | Velker et al. | 260 | 513 R | 05/18/1973 |
| an | AK2 | | 19,176 | 11/11/1975 | Meyer, Jr. et al. | 260 | 78.4 D | 10/01/1973 |
| 01 | <u> </u> | | | FOREIG | N PATENT DOCUMENTS | | | |
| XAMINER NITIAL | | 1 | UMENT BER | DATE | COUNTRY | CLASS | SUB- | TRANSLATION |
| PM | AL2 | + | 93/11926 | 06/24/1993 | WIPO | | 186 | Yes No |
| $\frac{1}{2}$ | AM2 | WO | 95/05413 | 02/23/1995 | WIPO | ROLL | E K | Yes No |
| | AN2 | WO | 95/18191 | 07/06/1995 | WIPO | 100 | 12 | Yes No |
| W. | A02 | WO | 96/07540 | 03/14/1996 | WIPO | | C.William | Yes |
| Ph | AP2 | WO | 99/47621 | 09/23/1999 | WIPO | \ | 1 183 | Yes No |
| - | | | OTHER (Incl | uding Author, | Title, Date, Pertinent | Pages, etc.) | | • |
| OM | AR | 2 | "Thermoset by applica 1975. | cting sealant ation of high | anguage abstract of FR 22 contg. non conductive pa frequency field", WPI Ac | rticles - ha c No.: 75-27 | ving acce: 432W/1975: No. FR 14 | 17, June 20, |
| | AS | <u>2</u> | June 21, 1 | | equency welding of diffic | | | |

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INFORMATION DISCLOSURE STATEMENT

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| | | | • | U.S. | PATENT DO | CUMENTS | | | C 7, | 007 |
| XAMINER NITIAL | | DOC' | UMENT BER | DATE | NAME | | CI | ASS | SUB- CLASS | LILING DAT |
| PV | AA3 | 3,9 | 36,412 | 02/03/1976 | Rocholl | | 26 | 0 | 37 R | 09/23/1974 |
| 7 | AB3 | 3,9 | 43,024 | 03/09/1976 | Sendor e | et al. | 15 | 6 | 380 | 06/17/1974 |
| | AC3 | 4,0 | 20,049 | 04/26/1977 | Rinehart | | 26 | 0 | 75 M | 04/02/1971 |
| | AD3 | 4,0 | 35,547 | 07/12/1977 | Heller, | Jr. et al. | 42 | 8 . | 329 | 12/04/1975 |
| | AE3 | 4,0 | 52,368 | 10/04/1977 | Larson | | 26 | 0 | 75 S | 06/21/1976 |
| | AF3 | 4,0 | 73,777 | 02/14/1978 | O'Neill | et al. | 26 | 0 | 75 S | 01/17/1975 |
| | AG3 | 4,0 | 83,901 | 04/11/1978 | Schonfel | d et al. | 26 | 4 | 25 | 08/29/1975 |
| | АН3 | 4,1 | 04,262 | 08/01/1978 | Schade | | 52 | 8 | 295 | 04/08/1976 |
| | AI3 | 4,1 | 10,284 | 08/29/1978 | Violland | et al. | 26 | 0 | 29.5 TN | 10/11/1974 |
| 1/4 | AJ3 | 4,1 | 27,619 | 11/28/1978 | Godfrey | | 26 | 0 | 889 | 08/05/1977 |
| M | АКЗ | 4,1 | 33,731 | 01/09/1979 | Hansen e | t al. | 20 | 14 | 159.17 | 03/03/1978 |
| \bigcirc | • | | | FOREIG | N PATENT | DOCUMENTS | | | | |
| AMINER ITIAL | | DOC! | UMENT BER | DATE | COUNTRY | | CI | ASST | SUB- CLASS | TRANSLATIO |
| gn | AL3 | EP A1 | 0 963 760 | 12/15/1999 | Europe | • | | 10 | | Y |
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| FN | AR | <u>3</u> | | onal Search Re nuary 25, 2001 | | International . | Applica | tion No | o. PCT/US0 | 0/26214, |
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| An | AT | <u>3</u> | | rganic Product ww.tessenderlo | | | une 12, | 2000) | | |

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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1711.0040004/RWE APPLICATION NO. 09/667,720

APPLICANT Ryan et al.

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| | | | | | September 22, 2000 | 3721 | 1264 | (C) |
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| | • | | | U.S. | PATENT DOCUMENTS | | (C) (C) | |
| XAMINER NITIAL | | | CUMENT | DATE | NAME | CLASS | SUB- | FILING DATE |
| A | AA4 | 4,1 | 46,521 | 03/27/1979 | Godfrey | 260 | 27 R | 09/02/1977 |
| 0 7 | AB4 | 4,2 | 33,196 | 11/11/1980 | Sublett | 260 | 29.2N | 04/30/1979 |
| | AC4 | 4,2 | 57,928 | 03/24/1981 | Vachon et al. | 260 | 33.4R | 01728/1980 |
| | AD4 | 4,2 | 96,294 | 10/20/1981 | Beckert et al. | 219 | 10.41 | 11/13/1978 |
| | AE4 | 4,3 | 04,901 | 12/08/1981 | O'Neill et al. | 528 | 290 💃 | 04/28/1980 |
| | AF4 | 4,3 | 11,655 | 01/19/1982 | Siadat | 264 | 22 | 03/31/1980 |
| | AG4 | 4,3 | 35,220 | 06/15/1982 | Coney | 523 | 414 | 04/06/1981 |
| | AH4 | 4,3 | 60,607 | 11/23/1982 | Thorsrud et al. | 523 | 137 | 09/04/1979 |
| | AI4 | 4,3 | 96,739 | 08/02/1983 | Sirota et al. | 524 | 394 | 01/04/1982 |
| $\sqrt{}$ | AJ4 | 4,4 | 08,532 | 10/11/1983 | Incremona | 101 | 456 | 02/03/1982 |
| (1) | AK4 | 4,4 | 23,191 | 12/27/1983 | Haven et al. | 525 | 169 | 05/01/1981 |
| V / | | | | FOREIG | N PATENT DOCUMENTS | | | |
| EXAMINER INITIAL | | | UMENT BER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION |
| | 1 | | | | | | | Ye N |
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| | AP | | | | | | 70 | Ye N |
| | | | OTHER (Inc | luding Author, | Title, Date, Pertinent | Pages, etc.) | 0 | |
| | AR | 4 | Eastman, <http: td="" w<=""><td>ww.eastman.com</td><td>S Polymer (visited May 8, m/Product_Information/Pro</td><td>2000) oductHome.asp</td><td>?EastmanDo</td><td>tCom=True&p)</td></http:> | ww.eastman.com | S Polymer (visited May 8, m/Product_Information/Pro | 2000) oductHome.asp | ?EastmanDo | tCom=True&p) |

Eastman, EASTMAN AQ 48 Ultra Polymer (visited May 8, 2000) http://www.eastman.com/Product Information/ProductHome.asp?EastmanDotCom=True&pr 4 oduct=74>.

AΤ

Eastman, EASTMAN AQ 55S Polymer (visited May 4, 2000)
<http://www.eastman.com/Product_Information/ProductHome.asp?EastmanDotCom=True&pr oduct=12>.

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT

EXAMINER

ATTY. DOCKET NO. 1711.0040004/RWE APPLICATION 09/667,726

APPLICANT Ryan et al

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DATE CONSIDERED .

September 22, 2000 U.S. PATENT DOCUMENTS EXAMINER FILING DATE CLASS SUB-INITIAL DOCUMENT DATE NAME CLASS NUMBER 02/28/1983 Schmidt, Jr. et al. 524 271 AA5 4,460,728 07/17/1984 09/11/1984 Foster 524 489 11/09/1983 AB5 4,471,086 01/30/1981 12/18/1984 Goswami 525 190 AC5 4,489,193 Fagerburg et al. 279 AD5 4,499,262 02/12/1985 528 03/09/1984 82 04/28/1983 04/09/1985 Rossi et al. 564 AE5 4,510,324 04/16/1984 AF5 4,525,524 06/25/1985 Tung et al. 524 601 35 06/26/1985 4,595,611 06/17/1986 Quick et al. 428 AG5 04/29/1985 AH5 4,598,142 07/01/1986 Hilbert et al. 528 295 35 09/12/1983 AI5 4,600,614 07/15/1986 Lancaster et al. 428 428 08/31/1984 AJ5 4,601,948 07/22/1986 Lancaster et al. 349 05/28/1985 428 421 02/03/1987 Lancaster et al. AK5 4,640,865 FOREIGN PATENT DOCUMENTS EXAMINER TRANSLATION DATE COUNTRY CLASS INITIAL DOCUMENT NUMBER Yes No AT. Yes No MΑ Yes AN No Yes AO No Yes No AΡ OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Eastman, EASTMAN AQ 1045 Copolyester (visited May 8, 2000) http://www.eastman.com/Product Information/ProductHome.asp?EastmanDotCom=True&pr AR 5 oduct=317>. Eastman, EASTMAN AQ 1350 Copolyester (visited May 8, 2000) http://www.eastman.com/Product_Information/ProductHome.asp?EastmanDotCom=True&pr AS 5 oduct=318>. Eastman, EASTMAN AQ Copolyester 1950 (visited May 8, 2000) <http://www.eastman.com/Product Information/ProductHome.asp?EastmanDotCom=True&pr AT oduct=1219>.

Draw EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

ATTY. DOCKET NO. 1711.0040004/RWE APPLICATION NO 09/667,7216

APPLICANT Ryan et al

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INFORMATION DISCLOSURE STATEMENT GROUP September 22, 3721 2000 U.S. PATENT DOCUMENTS EXAMINER FILING DATE CLASS SUB-DOCUMENT NAME DATE INITIAL CLASS NUMBER 10/07/1985 Walker et al. 427 391 AA6 4,659,595 04/21/1987 53 469 05/28/1985 04/28/1987 Lancaster et al. AB6 4,660,354 264 25 03/04/1985 4,661,299 04/28/1987 Thorsrud AC6 604 366 06/26/1986 Puletti et al. AD6 4,718,898 01/12/1988 Davis 428 355 04/10/1987 4,728,572 03/01/1988 AE6 428 137 12/18/1986 Noda 04/05/1988 AF6 4,735,843 06/28/1988 Mudge 428 343 02/02/1987 AG6 4,753,846 156 334 07/13/1987 08/02/1988 Salerno AH6 4,761,198 08/09/1988 Lancaster et al. 427 40 12/17/1986 4,762,731 AI6 Lancaste<u>r</u> et al. 428 345 12/17/1986 08/23/1988 AJ6 4,766,035 AK6 08/30/1988 Thorsrud 523 137 01/30/1987 4,767,799 FOREIGN PATENT DOCUMENTS EXAMINER DATE COUNTRY CLASS SUB-TRANSLATION DOCUMENT INITIAL CLASS NUMBER Yes No AL Yes No AM മ Yes No AN Yes No ΑO Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Eastman, EASTMAN AQ 14000 Copolyester (visited May 8, 2000) <http://www.eastman.com/Product Information/ProductHome.asp?EastmanDotCom=True&pr</p> AR <u>6</u> oduct=1220>. Eastman, EASTEK 1300 Polymer Dispersion (visited May 8, 2000) <http://www.eastman.com/Product_Information/ProductHome.asp?EastmanDotCom=True&pr</pre> <u>6</u> oduct=622>. Eastman, EASTEK 1300 Polymer Pellets (visited May 8, 2000) http://www.eastman.com/Product_Information/ProductHome.asp?EastmanDotCom=True&pr 6 oduct=1256>. DATE CONSIDERED EXAMINER

Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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| · | | | | U.S. | PA | TENT DOCUMENTS | | | | 1-77 | - 3 | * |
| EXAMINER INITIAL | | DOC | UMENT | DATE | | AME | CL | ss | SUB- CLASS | o F | ELING | DATE |
| BA. | AA7 | _ | 87,194 | 11/29/1988 | L | ancaster et al. | 53 | | 469 🗽 | 04 | 1/27/1 | .987 |
| (J) | AB7 | | 90,965 | 12/13/1988 | - | horsrud | 264 | | 25 | 0: | 1/30/1 | 987 |
| | AC7 | | 40,758 | 06/20/1989 | Т | horsrud | 264 | Į. | 26 | 05 | 9/09/1 | 988 |
| | AD7 | | 47,155 | 07/11/1989 | L | ancaster et al. | 428 | 3 | 421 | 05 | 9/30/1 | 987 |
| | AE7 | 4,8 | 53,420 | 08/01/1989 | Р | ham et al. | 521 | Ļ | 50.5 | 0.5 | _ 5/04/1 | 987 |
| | AF7 | 4,8 | 57,129 | 08/15/1989 | J | ensen et al. | 156 | ; | 273.7 | 0.5 | 7/31/1 | 987 |
| | AG7 | 4,8 | 86,853 | 12/12/1989 | F | oster et al. | 524 | L | 477 | 02 | 2/23/1 | 989 |
| | AH7 | 4,8 | 95,457 | 01/23/1990 | L | ancaster et al. | 383 | 3 | 94 | 0.8 | 3/31/1 | .988 |
| | AI7 | 4,9 | 10,292 | 03/20/1990 | В | lount | 528 | 3 | 272 | 10 |)/14/1 | .988 |
| 1 | AJ7 | 4,9 | 11,936 | 07/17/1990 | W | ilkinson et al. | 156 | 5 | 274.8 | 04 | 1/28/1 | 988 |
| M | AK7 | | 73,656 | 11/27/1990 | В | lount | 528 | } | 272 | 02 | 2/01/1 | 990 |
| 0 | • | | | FOREIG | N : | PATENT DOCUMENTS | | | | | | |
| EXAMINER INITIAL | | DOC | UMENT | DATE | С | OUNTRY | CL | ass | SUB- CLASS | T | RANSLA | TION |
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| | | | OTHER (Incl | uding Author, | T | itle, Date, Pertinent Page | es, | etc.) | | | | |
| PN | AR | <u>7</u> | Lide, D.R Handbook 28, 9-30 | of Chemistry a | ti nd | vity (Dielectric Constant Physics, CRC Press, Inc. |) of , An | Pure n Arbo | Liquids, or, MI, | " ir pp. | 1 CRC 9-27, | 9- |
| 1 | AS | 7 | Miller, R Adhesives | . A. and Althe Age 40:63-66, | n, C | G., "Water-Dispersible H hemical Week Associates (| ot M Nove | elt Ad mber, | lhesive F 1997). | 'ormı | ılatio | ns," |
| PN | АТ | <u>7</u> | Co-Pending | g U.S. Patent | Аp | plication No. 09/482,553, | Rya | n et a | al., file | d Ja | inuary | · 13, |
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INFORMATION DISCLOSURE STATEMENT

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| | - | | σ.s. | PATENT DOCUMENTS | | _ <u>_</u> | 0 |
|---------------------|-----|--------------------|------------|---------------------|-------|------------|-------------|
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- | FILING DATE |
| (DV) | AA8 | 4,990,593 | 02/05/1991 | Blount | 528 | 272 | 07/13/1990 |
| 01 | AB8 | 5,002,051 | 03/26/1991 | Dew et al. | 128 | 395 | 07/14/1989 |
| | AC8 | 5,079,047 | 01/07/1992 | Bogaert et al. | 428 | 41 | 05/12/1989 |
| | AD8 | 5,098,962 | 03/24/1992 | Bozich | 525 | 437 | 01/22/1991 |
| | AE8 | 5,132,108 | 07/21/1992 | Narayanan et al. | 424 | 78.17 | 11/08/1990 |
| | AF8 | 5,156,613 | 10/20/1992 | Sawyer | 606 | 213 | 02/13/1991 |
| | AG8 | 5,182,134 | 01/26/1993 | Sato | 427 | 543 | 01/28/1992 |
| | AH8 | 5,209,776 | 05/11/1993 | Bass et al. | 106 | 124 | 07/27/1990 |
| . 1 | AI8 | 5,217,798 | 06/08/1993 | Brady et al. | 428 | 246 | 05/07/1991 |
| \/ | AJ8 | 5,218,042 | 06/08/1993 | Kuo et al. | 524 | 601 | 09/25/1991 |
| ØN | AK8 | 5,219,895 | 06/15/1993 | Kelman et al. | 522 | 68 | 01/29/1991 |
| | | • | FOREI | GN PATENT DOCUMENTS | | | |
| | | | _ | | | | |

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- COSS | TRANSLATION |
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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ΑT

Preliminary Amendment and Statement Under 37 C.F.R. § 163(d)(2) Deleting Inventors as filed in co-pending Divisional U.S. Patent Application No. 09/867,983, Ryan et al., filed May 31, 2001.

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1711.0040004/RWE 09/667,720 APPLICANT Ryan et al.

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| | | | | September 22, 2000 | 3721 | | | | | | |
|-----------------------|-----|--------------------|------------|--------------------|-------|---------------|--------------------|--|--|--|--|
| U.S. PATENT DOCUMENTS | | | | | | | | | | | |
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE | | | | |
| PN | AA9 | 5,220,141 | 06/15/1993 | Quick et al. | 219 | 10.55 E | 03/26/1991 | | | | |
| 1 | AB9 | 5,240,780 | 08/31/1993 | Tiers et al. | 428 | 483 | 10/02/1991 | | | | |
| | AC9 | 5,281,630 | 01/25/1994 | Salsman | 521 | 48.5 | 12/18/1991 | | | | |
| | AD9 | 5,286,504 | 02/15/1994 | Sheen et al. | 426 | `£ }3 | 0.201/1993 | | | | |
| | AE9 | 5,292,362 | 03/08/1994 | Bass et al. | 106 | 124 | 07/09/1991 | | | | |
| | AF9 | 5,318,650 | 06/07/1994 | Kerawalla | 156 | 245 | 09/25/1992 | | | | |
| | AG9 | 5,328,539 | 07/12/1994 | Sato | 156 | 275.5 5 | 12/31/1992 | | | | |
| | AH9 | 5,329,004 | 07/12/1994 | Eden et al. | 536 | 109 💢 | A /23 D 992 | | | | |
| | AI9 | 5,336,518 | 08/09/1994 | Narayanan et al. | 623 | 1 📆 | 12/11/1992 | | | | |
| - | AJ9 | 5,354,336 | 10/11/1994 | Kelman et al. | 623 | 6 (v) | 03/15/1993 | | | | |
| PN | AK9 | 5,356,963 | 10/18/1994 | Kauffman et al. | 524 | 43 | 07/16/19 <u>93</u> | | | | |

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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

1711.0040004/RWE

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Ryan et al.

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| BILL | AA10 | 5,360,845 | 11/01/1994 | Billmers et al. | 524 | 51 `\ | 08/13/1993 |
| 011 | AB10 | 5,369,211 | 11/29/1994 | George et al. | 528 | 293 | 01/18/1994 |
| _ | AC10 | 5,371,133 | 12/06/1994 | Stanley | 524 | 457 | 03/04/1994 |
| | AD10 | 5,373,682 | 12/20/1994 | Hatfield et al. | 53 | 440 | 12/23/1992 |
| | AE10 | 5,382,652 | 01/17/1995 | Fukuda et al. | 528 | 308.6 | 03/30/1992 |
| | AF10 | 5,387,623 | 02/07/1995 | Ryan et al. | 523 | 124 | 06/06/1992 |
| | AG10 | 5,391,406 | 02/21/1995 | Ramharack et al. | 427 | 516 | 03/25/1994 |
| | AH10 | 5,403,312 | 04/04/1995 | Yates et al | 606 | 50 | 07/22/1993 |
| | AI10 | 5,403,998 | 04/04/1995 | Sheen et al. | 219 | 730 | 03/10/1993 |
| 1/ | AJ10 | 5,416,127 | 05/16/1995 | Chandran et al. | 522 | 149 | 01/26/1994 |
| (42) | AK10 | 5,453,144 | 09/26/1995 | Kauffman et al. | 156 | 213 | 03/04/1994 |
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| BI | AA11 | 5,475,038 | 12/12/1995 | Skoultchi | 522 | 96 \ | 05/10/1994 |
| 0 | AB11 | 5,506,298 | 04/09/1996 | Paul et al. | 525 | 66 | 04/12/1994 |
| | AC11 | Des. 368,918 | 04/16/1996 | DeBiasse | D15 | 145 | 05/24/1995 |
| | AD11 | 5,519,072 | 05/21/1996 | Wieczorek, Jr. et al. | 524 | 48 | 02/15/1995 |
| | AE11 | 5,523,344 | 06/04/1996 | Maksymkiw et al. | 524 | 507 | 06/07/1995 |
| | AF11 | 5,527,655 | 06/18/1996 | Bonham et al. | 430 | 175 | 09/28/1994 |
| | AG11 | 5,530,056 | 06/25/1996 | Farwaha et al. | 524 | 558 | 05/03/1995 |
| | AH11 | 5,532,300 | 07/02/1996 | Koubek et al. | 524 | 47 | 08/12/1994 |
| | AI11 | 5,532,306 | 07/02/1996 | Kauffman et al. | 524 | 274 | 08/31/1994 |
| 16 | AJ11 | 5,536,759 | 07/16/1996 | Ramharack et al. | 522 | 35 | 10/13/1994 |
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| BN | AA12 | 5,545,472 | 08/13/1996 | Koubek et al. | 428 | 261 | 02/22/1995 |
| 07 | AB12 | 5,552,495 | 09/03/1996 | Miller et al. | 525 | 437 | 10/31/1995 |
| | AC12 | 5,574,076 | 11/12/1996 | Sharak et al. | 523 | 17/8 2 1 / ₆ | 05/03/1995 |
| | AD12 | 5,591,850 | 01/07/1997 | Birbaum et al. | 544 | 246 | 11/17/1994 |
| | AE12 | 5,608,000 | 03/04/1997 | Duan et al. | 524 | 5F1 = | 097b9/1994 |
| | AF12 | 5,616,625 | 04/01/1997 | Hung et al. | 521 | 795 | 0 2/17/1995 |
| | AG12 | 5,618,876 | 04/08/1997 | Farwaha et al. | 524 | 548 ~ | 06/05/1995 |
| | AH12 | 5,645,886 | 07/08/1997 | Schueler, II et al. | 427 | 140. | 09701/1995 |
| | AI12 | 5,645,904 | 07/08/1997 | Woo et al. | 428 | 35 🗁 | 12/11/1991 |
| V | AJ12 | 5,661,201 | 08/26/1997 | Degrand | 524 | 23361 | 04/14/1995 |
| Pn | AK12 | 5,669,934 | 09/23/1997 | Sawyer | 606 | 213 | 06/05/1995 |
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| PM | AA13 | 5,670,566 | 09/23/1997 | Liedermooy et al. | 524 | 271 | 01/06/1995 |
| 0,1 | AB13 | 5,688,845 | 11/18/1997 | Eden et al. | 524 | 48 | 05/06/1996 |
| | AC13 | 5,716,441 | 02/10/1998 | Nguyen et al. | 106 | 207.1 | 09/27/1996 |
| | AD13 | 5,717,015 | 02/10/1998 | Dust et al. | 524 | 236 | 02/11/1997 |
| | AE13 | 5,719,244 | 02/17/1998 | Farwaha et al. | 526 | 210.2 | 11/13/1996 |
| | AF13 | 5,749,895 | 05/12/1998 | Sawyer et al. | 606 | 214 | 09/10/6/1994 |
| 1 | AG13 | 5,750,605 | 05/12/1998 | Blumenthal et al. | 524 | 238 6 | 05/21/1996 |
| | AH13 | 5,760,111 | 06/02/1988 | Birbaum et al. | 524 | 100 | 09/11/1996 |
| \ \ \ | AI13 | 5,770,706 | 06/23/1998 | Wu et al. | 523 | 4290 1 | 05/3171996 |
| $\sqrt{}$ | AJ13 | 5,795,397 | 08/18/1998 | Shi et al. | 127 | 29 🔀 | 35/06/1996 |
| Py | AK13 | 5,821,294 | 10/13/1998 | Perlinski | 524 | 507 🚍 | 08/30/1996 |
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| Ph | AA14 | 5,824,015 | 10/20/1998 | Sawyer | 606 | 214 | 06/05/1995 |
| Vi | AB14 | 5,840,146 | 11/24/1998 | Woo et al. | 156 | 272.4 | 06/06/1995 |
| | AC14 | 5,859,152 | 01/12/1999 | Miller et al. | 525 | 444 | 09/12/1997 |
| | AD14 | 5,856,060 | 01/05/1999 | Kawamura et al. | 430 | 201 | 03/04/1997 |
| | AE14 | 6,048,599 | 04/11/2000 | Chu et al. | 428 | di 4 | 01/17/1997 |
| | AF14 | 6,072,362 | 06/06/2000 | Lincoln | 330 | <u>16</u> ; | 07/10/1998 |
| | AG14 | 6,121,356 | 09/19/2000 | Lundberg et al. | 524 | 297 | 09/09/1994 |
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| | AC15 | 4,253,898 | 03/03/1981 | Rinker et al. | 156 | 27 | 72 | 12/17/1979 | |
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| (+1) | AG15 | 2,43 | 33,067 | 12/23/1947 | Russell | , G.F. | 219 | 4.7 | 06/26/1942 | | | |
| 1 | AH15 | 2,4 | 57,498 | 12/28/1948 | Russell | , G.F. et al. | 154 | 116 | 12/11/1945 | | | |
| \frac{1}{2} \tag{2} | AI15 | 2,8 | 21,611 | 01/28/1958 | Mann, J | .W. et al. | 219 | 10.61 | 03/18/1954 | | | |
| 1321 | AJ15 | 3,5 | 32,848 | 10/06/1970 | Loring, | Jr., C.M. et al. | 219 | 10.61 | 04/26/1968 | | | |
| | AK15 | | | | | | | ٠ | | | | |
| | | | | FOREIG | N PATENT | DOCUMENTS | | | | | | |
| EXAMINER INITIAL | | DOCU | UMENT BER | DATE | COUNTRY | | CLAS | SS SUB- CLASS | TRANSLATION | | | |
| ٧ | AL1 | 1 2 2 2 2 | | | | | | | Yes No | | | |
| | AM1 | | | | | | | | Yes No | | | |
| | | - | | | | | | | Yes No | | | |
| | AN1 | | | | | | | | Yes | | | |
| | A01 | | | | <u> </u> | | | | No Yes | | | |
| | AP1 | | | | | | | | No | | | |
| | | | OTHER (Inc. | luding Author, | Title, | Date, Pertinent Pa | ges, et | tc.) | | | | |
| | AR | <u>1</u> | | | | | | Ap. | | | | |
| | AS | 1 | | T. | | | | 10.77 | CENED VED | | | |
| | AT | 1 | | | | | | | <i></i> | | | |
| EXAMINER | XX | 5 | | | | | DATE | CONSIDERED | 13/03 | | | |
| EXAMINER: I line through | ı citati | on i | f not in co | onsidered, whe | ther or | not citation is in sidered. Include | confor | rmance with f this form | MPEP 609. Draw with next | | | |